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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/040,222 10/29/2001		Bjorn B. Levidow	207203	2902
23460 7	1460 7590 10/21/2004		EXAMINER	
	IT & MAYER, LTD	KOMOL, VAJIRACHAI		
TWO PRUDENTIAL PLAZA, SUITE 4900 180 NORTH STETSON AVENUE CHICAGO, IL 60601-6780			ART UNIT PAPE	
			2115	

DATE MAILED: 10/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

1,		Application	on No.	Applicant(s)			
Office Action Summary		10/040,22	2	LEVIDOW ET AL.			
		Examiner		Art Unit			
		Vajirachai		2115			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE MA - Extension after SIX (- If the peric - If NO peri - Failure to Any reply	TENED STATUTORY PERIOD FO ILING DATE OF THIS COMMUNIC is of time may be available under the provisions of (6) MONTHS from the mailing date of this community of reply specified above is less than thirty (30) od for reply is specified above, the maximum stature of the provision o	CATION. f 37 CFR 1.136(a). In no evenication. days, a reply within the statutory period will apply and within, by statute, cause the appl	int, however, may a reply be tim story minimum of thirty (30) days Il expire SIX (6) MONTHS from i ication to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status							
1)⊠ Re	N Responsive to communication(s) filed on 29 October 2001.						
2a) <u></u> Th	This action is FINAL . 2b) This action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4a) 5)☐ Cla 6)⊠ Cla 7)☐ Cla							
Application	Papers						
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on <u>29 October 2001</u> is/are: a) ☐ accepted or b) ☑ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority und	er 35 U.S.C. § 119						
a)	Certified copies of the priority of Certified copies of the priority of	locuments have bee locuments have bee f the priority docume al Bureau (PCT Rul	n received. n received in Applicati ents have been receive e 17.2(a)).	on No ed in this National Stage			
Attachment(s)							
	References Cited (PTO-892)	· · · · · · · · · · · · · · · · · · ·	4) Interview Summary				
3) 🔲 Informati	Draftsperson's Patent Drawing Review (PT on Disclosure Statement(s) (PTO-1449 or F o(s)/Mail Date		Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)			

DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: display 116 (page 6, line 19), text input area 504 (page 9, line 12), snapshot 1308 (page 10, line 6), step 905 (page 16, line 3) and snapshot module 1172 (page 16, line 15). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-3, 5, 8-9, 13, and 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Skibinski (U.S. Pat. 6,654,798) in the view of Nathan • (U.S. Pat. 6,647,492).

Regarding claim 1, Skibinski discloses a computer-implemented method for obtaining information about a shutdown of a computer (col. 2 lines 1-3), the computer having at least one user-mode process (col. 3 lines 17-21 and/or fig.1 item 44), the method comprising: presenting a user (agent) with a plurality of reasons for the shutdown of the computer (col. 3 line 24 and fig.3 item 16), receiving a user selection of at least one of the plurality of reasons (col. 3 lines 26-29 and fig. 3 item 18) and capturing the state of the user-mode process for 8 subsequent analysis (col. 7 line 64 - col. 8 line 4). However, Skibinski does not indisclose a method of storing the selected reason in the memory. Nathan teaches in the selected reason in the memory. a method of storing the selected reason in the memory (col. 7 lines 20-22). It would appear that Nathan's motivation for storing comprehensive records of the 🚁 🤲 🔻 shutdown reasons is to allow for diagnoses and analysis of how the shutdown occurred. At the time of the invention it would have been obvious to a person of the Albert and A ordinary skill in the art to provide Skibinski with Nathan's method of storing the selected reason in the memory in order to create comprehensive records of the shutdown reasons for further diagnoses and analysis.

Regarding claim 2, examiner takes Official Notice that storing computer executable method instructions on a computer-readable medium such as a CD-ROM is well known in the art. Accordingly, it would have been obvious to one of

Art Unit: 2115

ordinary skill in the art at the time the invention was mad, to store the method of claim 1 on a CD-ROM.

Regarding claim 3, Skibinski teaches the method of claim 1, further comprising: retrieving the plurality of reasons from a system database (col. 3 lines 23-24); and, presenting the retrieved reasons to the user (col. 3 lines 23-24 and/or fig.3 item 16).

Regarding claim 5, Skibinski teaches the method of claim 1, wherein at least one of the plurality of reasons is user-configurable (col. 2 lines 19-20, custom-defined shutdown reasons would be customized by a user and thus are user-configurable).

Regarding claim 8, Skibinski teaches the method of claim 1, wherein the user initiates the shutdown of the computer (col. 3 lines 22-23) and selects one or more reasons for shutting down the computer at a remote computer (col. 3 lines 26-27) that is in communication with the computer being shut down (col. 3 lines 19-21)

Regarding claim 9, Skibinski teaches the method of claim 1, further comprising prompting the user to enter the shutdown reason (col. 3 lines 24-26) in response to the user initiating a shutdown of the computer (col. 3 lines 22-23).

Art Unit: 2115

Regarding claim 13, Skibinski teaches the method of claim 1, further comprising receiving a user indication of a remote machine that is being shutdown (col. 3 lines 26-29).

Regarding claim 19, Skibinski teaches a computer-implemented method for obtaining information about a shutdown of a computer (col. 2 lines 1-3), wherein the computer has a memory, the method comprising: receiving from a user a reason for shutting down the computer (col. 3 lines 26-29 and/or fig. 3 item 18), wherein the reason is one of a plurality of predefined shutdown reasons (col. 3 lines 23-24); taking a snapshot of the state of all of the user-mode processes that are running on the computer at the time of the shutdown (col. 7 and line 64 - col. 8 line 1). However, Skibinski does not disclose a method of storing the received reason and the snapshot in the memory. Nathan teaches a method of storing the received reason and the snapshot in the memory (col. 7 lines 20-23). It would appear that Nathan's motivation for storing comprehensive records of the shutdown reasons is to allow for diagnoses and analysis of how the shutdown occurred. At the time of the invention it would have been obvious to a person of ordinary skill in the art to provide Skibinski with Nathan's method of storing the selected reason in the memory in order to create comprehensive records of the shutdown reasons for further diagnoses and analysis.

Regarding claim 20, examiner takes Official Notice that storing computer executable method instructions on a computer-readable medium such as a CD-

Art Unit: 2115

ROM is well known in the art. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was mad, to store the method of claim 1 on a CD-ROM.

Regarding claim 21, Skibinski teaches the method of claim 19, further comprising, in response to the user initiating the shutdown of the computer (col. 3 lines 22-23), prompting the user to enter the shutdown reason (col.3 lines 25-28).

4. Claims 4, 6-7, 10-12, 14, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Skibinski (U.S. Pat 6,654,798) in the view of Nathan (U.S. Pat. 6,647,492) and further in view of Connelly (U.S. Pat. 6,594,786).

Regarding claim 4, as set forth above, Skibinski and Nathan teach all the limitations of claims 1 and 3. However, neither Skibinski nor Nathan disclose the method of claim 3, wherein the reasons are retrieved from entries located in a system database, wherein each reason entry indicates whether the reason is to be displayed during a shutdown of the computer, or during a restart of the computer following a shutdown. Connelly teaches wherein the reasons are retrieved from entries located in a system database (col. 7 lines 41-42, TABLE 1), wherein each reason entry indicates whether the reason is to be displayed during a shutdown of the computer (col. 7 lines 36-42, each reason in TABLE 1 indicates whether the shutdown reason is planned or unplanned and as a result, planned reasons will be displayed during a shutdown of the computer), or during

Art Unit: 2115

a restart of the computer following a shutdown (col. 7 lines 44-52, each reason in TABLE 1 indicated whether the shutdown reason is planned or unplanned and as a result, unplanned/crash reasons will be executed during a restart of the computer following a shutdown) in order to improve system recovery times by quickly identifying unavailable systems (col. 1 line 67- col. 2 line 1). At the time of the invention it would have been obvious to a person of ordinary skill in the art to provide Skibinski or Nathan with Connelly's method of receiving from the user a selection of whether the shutdown was planned or unplanned; and, storing the planned or unplanned selection in the memory in order to provide improved system recovery times (col. 1 line 67 – col. 2 line 1).

Regarding claim 6, as set forth above, Skibinski and Nathan teach all the limitations of claim 1. However, neither Skibinski nor Nathan discloses the method of claim 1, further comprising: receiving from the user a typed-in description of at least one reason for the shutdown; and storing the typed-in description in the memory. Connelly teaches a method of receiving from the user a typed-in description of at least one reason for the shutdown (col. 7 line 37 along with TABLE 1); and storing the typed-in description in the memory (col. 7 line 39, "writing the reason to the shutdown log") in order to improve system recovery times by quickly identifying unavailable systems (col. 1 line 67- col. 2 line 1). At the time of the invention it would have been obvious to a person of ordinary skill in the art to provide Skibinski or Nathan with Connelly's method of receiving from the user a typed-in description of at least one reason for the

shutdown; and storing the typed-in description in the memory in order to provide improved system recovery times (col. 1 line 67 – col. 2 line 1).

Regarding claim 7, as set forth above, Skibinski and Nathan teach all the limitations of claim 1. However, neither Skibinski nor Nathan disclose the method of claim 1, further comprising: receiving from the user a selection of whether the shutdown was planned or unplanned; and, storing the planned or unplanned selection in the memory. Connelly teaches a "Planned" downtime results from scheduled activities such as backup, maintenance, and upgrades and "Unplanned" downtime is the result of an unscheduled outage such as system crash, hardware or software failure, or environmental incident such as loss of power or natural disaster (see TABLE 1). Connelly also teaches a method of receiving from the user a selection of whether the shutdown was planned or unplanned (col. 15 lines 64-65 along with TABLE 1); and, storing the planned or unplanned selection in the memory (col. 7 lines 36-41) in order to improve system recovery times by quickly identifying unavailable systems (col. 1 line 67col. 2 line 1). At the time of the invention it would have been obvious to a person of ordinary skill in the art to provide Skibinski or Nathan with Connelly's method of receiving from the user a selection of whether the shutdown was planned or unplanned; and, storing the planned or unplanned selection in the memory in order to provide improved system recovery times (col. 1 line 67 – col. 2 line 1).

Art Unit: 2115

Regarding claim 10, as ser forth above, Skibinski and Nathan teach all the limitations of claim 1. However, neither Skibinski nor Nathan disclose the method of claim 1, further comprising prompting the user to enter the shutdown reason in response to the user restarting the computer subsequent to the computer being shutdown. Connelly teaches a method to prompting the user to enter the shutdown reason in response to the user restarting the computer subsequent to the computer being shutdown (col. 7 lines 44-52, prior to sending "unplanned shutdown" (line 51) to the server would mean a reason must be enter by a user and therefore, it must be prompt by the system upon restarting) in order to improve system recovery times by quickly identifying unavailable systems (col. line 67 - col. 2 line 1). At the time of the invention it would have been obvious to a person of ordinary skill in the art to provide Skibinski or Nathan with Connelly's method to prompting the user to enter the shutdown reason in response to the aser restarting the computer subsequent to the computer being shutdown in order to provide improved system recovery times (col. 1 line 67 – col. 2 line 1).

Regarding claims 11 and 12, as set forth above, Skibinski and Nathan teach all the limitations of claim 1.

However, with respect to claim 11, neither Skibinski nor Nathan discloses the method of claim 1, wherein the reason is received via a command line interface.

Art Unit: 2115

And, with respect to claim 12, neither Skibinski nor Nathan discloses the method of claim 11, wherein the reason is received in the form of a reason code.

Connelly teaches, with respect to claim 11, wherein the reason is received via a command line interface (col. 7 line 37 or col. 12 lines 25-26) and, with respect to claim 12, wherein the reason is received in the form of a reason code (TABLE 1, Cause #) in order to improve system recovery times by quickly identifying unavailable systems (col. 1 line 67 – col. 2 line 1). At the time of the invention it would have been obvious to a person of ordinary skill in the art to provide Skibinski or Nathan with Connelly's method wherein the reason is received via a command line interface and the reason is received in the form of a reason code in order to provide improved system recovery times (col. 1 line 67 – col. 2 line 1).

Regarding claim 14, as set forth above, Skibinski and Nathan teach all the limitations of claim 1. However, neither Skibinski nor Nathan disclose the method of claim 1, further comprising: determining, based on the user specified selection, whether the shutdown is planned or unplanned; and if the shutdown is determined to be unplanned, performing the capturing step. Connelly teaches a method to determining, based on the user specified selection, whether the shutdown is planned or unplanned (col. 7 lines 37-41 along with TABLE 1); and if the shutdown is determined to be unplanned, performing the capturing step (col. 7 lines 48-52) in order to improve system recovery times by quickly identifying

Page 11

Art Unit: 2115

unavailable systems (col. 1 line 67 – col. 2 line 1). At the time of the invention it would have been obvious to a person of ordinary skill in the art to provide Skibinski or Nathan with Connelly's method to determining, based on the user specified selection, whether the shutdown is planned or unplanned; and if the shutdown is determined to be unplanned, performing the capturing step in order to provide improved system recovery times (col. 1 line 67 – col. 2 line 1).

Regarding claim 22, as ser forth above, Skibinski and Nathan teach all the limitations of claim 19. However, neither Skibinski nor Nathan disclose the method of claim 19, further comprising, in response to the user rebooting the computer after an unexpected shutdown, prompting user to enter the reason for she unexpected shutdown. Connelly teaches a method in response to the user ⇒booting the computer after an unexpected shutdown (col. 7 line 44), prompting ser to enter the reason for the unexpected shutdown (col. 7 line 52, prior to ending "unplanned shutdown" (line 51) to the server would mean a reason must be enter by a user and therefore, it must be prompt by the system tupon ebooting) in order to improve system recovery times by quickly identifying anavailable systems (col. 1 line 67 - col. 2 line 1). At the time of the invention it would have been obvious to a person of ordinary skill in the art to provide Skibinski or Nathan with Connelly's method in response to the user rebooting the computer after an unexpected shutdown, prompting user to enter the reason for the unexpected shutdown in order to provide improved system recovery itimes (col. 1 line 67 – col. 2 line 1).

5. Claims 15-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Connelly (U.S. Pat. 6,594,786) in further view of Nathan (U.S. Pat. 6,647,492).

Regarding claim 15, Connelly teaches a computer-implemented method for obtaining information about a shutdown of a computer, the method comprising: at a command-line interface (col. 12 lines 25-26), receiving a user entry of a command to shutdown the computer (col. 7 line 37) along with at least one shutdown reason code (TABLE 1, Cause #); searching a list of predefined 🐘 shutdown reason codes to determine whether the entered shutdown reason code. is recognized (TABLE 1, Cause #); if the reason code indicates that the shutdown is unplanned, taking a snapshot of the current state of each of a iurality of user-mode processes (col. 7 lines 48-52, system "crash" is an example of an unplanned shutdown and the snapshot of the current state appears to include at least the timestamp in the status file and the unplanned shutdown log); and storing the snapshot in a non-volatile memory (col. 7 line 52, "unplanned shutdown" appears to includes at least a snapshot of the timestamp in the status file and then sent to the server for future diagnose and analysis and therefore, "unplanned shutdown" must be stored in a non-volatile memory). However, Connelly does not disclose storing the entered reason code in a memory. Nathan teaches a method of storing the entered reason code in a memory (col. 7 line 20-22, the precondition, "if the entered reason code is

recognized" is taught by Connelly, see TABLE 1, Cause #). It would appear that Nathan's motivation for storing comprehensive records of the shutdown reasons is to allow for diagnoses and analysis of how the shutdown occurred. At the time of the invention it would have been obvious to a person of ordinary skill in the art to provide Connelly with Nathan's method of storing the entered reason code in a memory in order to create comprehensive records of the shutdown reasons for further diagnoses and analysis.

Regarding claim 16, Connelly teaches a computer-readable medium having stored thereon computer-executable instructions for performing the method of claim 15 (figure 1 item 8).

Regarding claim 17, Connelly teaches the method of claim 15, wherein the receiving step further comprises receiving the name of the computer that is being shutdown (figure 8F item 260, ENTITY) and wherein the storing step further comprises storing the reason code on a memory of the named computer (figure 3F item 260, NOTES).

Regarding claim 18, Connelly teaches the method of claim 15, wherein the receiving step further comprises receiving the name of the computer that is being shutdown (figure 8F item 260, ENTITY), and wherein the storing step further comprises storing the snapshot on a memory of the named computer (figure 8F).

Page 14

Art Unit: 2115

6. Claims 23-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Skibinski (U.S. Pat. 6,654,798) in further view of Connelly (U.S. Pat. 6,594,786).

Regarding claim 23, Skibinski discloses a method for obtaining information about the shutdown of a computer, the method comprising: in response to a user initiating the shutdown of a computer (col. 3 lines 22-23): retrieving a list of preconfigured shutdown reasons from a database on the computer (col. 3 lines 23-24); presenting the list of preconfigured shutdown reasons to the user (col. 3 lines 23-24); prompting the user to select one or more of the preconfigured reason (col. 3 lines 25-27); storing the selected preconfigured reason or reasons in a log file on the computer (col. 3 lines 28-29). However, Skibinski does not each if the selected shutdown reason indicates that the shutdown is unplanned aking a snapshot of the current state of the user mode processes on the computer; storing the snapshot on a non-volatile memory of the computer and, shutting down the computer. Connelly teaches if the selected shutdown reason indicates that the shutdown is unplanned (col. 7 line 49, system "crash" is an example of an unplanned shutdown), taking a snapshot of the current state of the user mode processes on the computer (col. 7 lines 48-52, snapshot of the current state appears to include at least the timestamp in the status file and the unplanned shutdown log); storing the snapshot on a non-volatile memory of the computer (col. 7 line 52, "unplanned shutdown" is sent to the server for future diagnoses and analysis therefore, it must be save on a non-volatile memory)

and, shutting down the computer (a consequence from initiating the shutdown command). Connelly's motivation is to improve system recovery times by quickly identifying unavailable systems (col. 1 line 67 – col. 2 line 1). At the time of the invention it would have been obvious to a person of ordinary skill in the art to provide Skibinski or Nathan with Connelly's teaching in order to provide improved system recovery times (col. 1 line 67 – col. 2 line 1).

Regarding claim 24, examiner takes Official Notice that storing computer executable method instructions on a computer-readable medium such as a CD-ROM is well known in the art. Accordingly, it would have been obvious.

Regarding claim 25, Connelly teaches the method of claim 23, further comprising: prompting the user to select whether the shutdown is planned or applanned (col. 7 line 38 along with TABLE 1, definition of "planned" and "anplanned" col. 1 line 56-61); and, storing the planned or unplanned selection in the log file (col. 7 line 39).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vajirachai Komol whose telephone number is (571) 272-5858. The examiner can normally be reached on 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Lee can be reached on (571) 272-3667. The fax

Art Unit: 2115

phone number for the organization where this application or proceeding is

assigned is 703-872-9306.

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free)

LYNNE H. BROWNE
SUPERVISORY PATENT EXAMINER
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Page 16

V.X.